| Form PTO-1449 (REV. 8-83) | | nent of Commerce rademark Office | Atty. Dock 2003080-0083 | In re App 09/938,7 | olication No. |
|------------------------------|--|----------------------------------|-------------------------|-------------------------|---------------|
| , | | _ | (SK-943-US) | 09/938,7 | #13 |
| INFORMATION | N DISCLOSURE STAFF ral sheets if necessary) Di | CEIVED | Applicant: Danishefsky, | et al. | <u> </u> |
| O, (agi) | ar sincers if incressariy) Di | EC 0 7 2001 | Filing Date: | Group: | |
| DEC D 6 SOM SE | | ENTER 1600/2900 | August 24, 2001 | 1651 10 | 624 |
| JUS. PATIST D | OCUMENTS | - | | | |
| Examiner's Initials | U.S. Patent No. | Applicant | Issue Date | Class | Subclass |
| BC × | 6,239,168 | Ino et al., | May 29, 2001 | 514 | 450 |
| BC * | 5,977,165 | Agatsuma et al., | November 2, 1999 | 514 | 450 |
| BC | 5,731,343 | Feng et al., | March 24, 1998 | 514 | 450 |
| BC * | 5,650,430 | Sugimura et al., | July 22, 1997 | 514 | 450 |
| BC X | 5,597,846 | Sugimura et al., | January 28, 1997 | 514 | 450 |
| BC | 4,228,079 | Calton | October 14, 1980 | 260 | 343.41 |
| BC | 3,373,038 | Hodge et al., | March 12, 1968 | | |
| U.S. PATENT A | PPLICATIONS | | | | • |
| Examiner's Initials: | Serial Number: | Applicant: | Filing Date: | Group: | Art Unit: |
| 74.284 | | | | | |
| FOREIGN PATI | ENT DOCUMENTS | - | | **** | |
| Examiner's | Document No. | Country | Publication Date | Translation | |
| Initials | | | | Yes | No |
| BC | EP 0 606 044 | Europe | 13 July 1994 | | |
| BC * | WO 98/18780 | PCT | 07 May 1998 | X (abstract only) | X |
| BC * | WO 99/55689 | PCT | 04 November 1999 | X (abstract only) | X |
| BC | WO 00/61578 | PCT | 19 October 2000 | | |
| Be | WO 01/45751 | PCT | 28 June 2001 | | |
| OTHER DOCUM | MENTS | | | | |
| Examiner's Initials | Citation (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | |
| Be | Armstrong, et al., "Synthesis of Sulphur-Containing Heterocycles by Ring Closing Diene Metathesis", <i>Tetrahedron Letters</i> , 37 (52): 9373-9376, 1996. | | | | |
| BC | Blanchette, et al., "Horner-Wadsworth-Emmons Reaction: Use of Lithium Chloride and an Amine for Base-Sensitive Compounds", <i>Tetrahedron Letters</i> , 25 (21): 2183-2186, 1984. | | | | |
| Be | Buchner, J., "Hsp90& Co A Holding for Folding", TIBS, 136-141, April 1999. | | | | |

| Form PTO-1449 | U.S. partment of Commerce | Atty. Dock | In re Application No. | | | |
|-----------------------------------|---|---|-----------------------|--|--|--|
| (REV. 8-83) | Patent and Trademark Office | 2003080-0083 | 09/938,754 | | | |
| (1427.005) | Tutom and Tradomain Omeo | (SK-943-US) | RECEIVE | | | |
| INFORMATION | DISCLOSURE STATEMENT | Applicant: Danishefsky, | et al. | | | |
| P(Esexeveral sheets if necessary) | | | | | | |
| DEC 0 8 JULY SE | | Filing Date: | TERMINENLL | | | |
| | | August 24, 2001 | 1651 1631 600,2000 | | | |
| Fran Barnett | Chatterjee, et al., "Synthesis of Functionalized Olefins by Cross and Ring-Closing Metatheses", <i>J. Am. Chem. Soc.</i> 122 : 3783-3784, 2000. | | | | | |
| BC | Chiosis, et al., "A Small Molecule Designed to Bind to the Adenine Nucleotide Pocket of Hsp90 Causes Her2 Degradation and the Growth Arrest and Differentiation of Breast Cancer Cells", <i>Chemistry & Biology</i> , 8 : 289-299, 2001. | | | | | |
| BC | Delmotte, et al., "A New Antifungal Substance of Fungal Origin", Nature, 17: 344, 1953. | | | | | |
| ВС | Fang, et al., "Regio-Diastereoselective Reactions of Dithio-Substituted Crotyllithium and Aldehydes", <i>J. Org. Chem.</i> 51: 2828-2829, 1986. | | | | | |
| BC | Fukuyama, et al., "Total Synthesis of Gliotoxin, Dehydrogliotoxin and Hyalodendrin", <i>Tetrahedron</i> , 37 : 2045-2078, 1981. | | | | | |
| BC | Fürstner, et al., "Macrocycles by Ring-Closing-Metathesis, XI ¹ : Syntheses of (R)-(+)-Lasiodiplodin, Zeranol and Truncated Salicylihalamides", <i>Tetrahedron</i> , 55 : 8215-8230, 1999. | | | | | |
| Be | Garbaccio, et al., "Efficient Asymmetric Synthesis of Radicicol Dimethyl Ether: A Novel Application of Ring-Forming Olefin Metathesis", <i>Org. Lett.</i> 2 (20): 3127-3129, 2000. | | | | | |
| BC | Kishi, et al., "A New Method for the Synthesis of Epidithiodiketopiperazines", Journal of the American Chemical Society", J. Am. Chem. Soc., 95(19): 6490-6492, 1973. | | | | | |
| BC | Kuduk, et al., "Synthesis and Evaluation of Geldanamycin-Estradiol Hybrids", <i>Bioorganic & Medicinal Chemistry Letters</i> , 9 : 1233-1238, 1999. | | | | | |
| BC | Kuduk, et al., "Synthesis and Evaluation of Geldanamycin-Testosterone Hybrids", <i>Bioorganic & Medicinal Chemistry Letters</i> , 10 : 1303-1306, 2000. | | | | | |
| BC | Kwon, et al., "Suppression of Morphological Transformation by Radicicol is Accompanied by Enhanced Gelsolin Expression", <i>Oncogene</i> , 15 : 2625-2631, 1997. | | | | | |
| BC | Kwon, et al., "Radicicol, An Agent Inducing the Reversal of Transformed Phenotypes of src-Transformed Fibroblasts", <i>Biosci. Biotech. Biochem.</i> 56 (3): 538-539, 1992. | | | | | |
| BC X | Lampilas, et al., "Convergent Stereospecific Total Synthesis of Monocillin I and Monorden (or Radicicol), <i>Tetrahedron Letters</i> , 33 (6): 777-780, 1992. | | | | | |
| Be | Lampilas, et al., "Convergent Stereospecific Total Synthesis of Monochiral Monocillin I Related Macrolides", <i>Tetrahedron Letters</i> , 33 (6): 773-776, 1992. | | | | | |
| BL | Makara, et al., "An Improved Synthesis of 5,7-Dimethoxy-4-Methyl-Phthalide, A Key Intermediate in the Synthesis of Mycophenolic Acid", <i>Synthetic Communications</i> , 26 (10): 1935-1942, 1996. | | | | | |
| BC | McCapra, et al., "The Constitution of Monorden, An Antibiotic with Tranquilising Action", <i>Tetrahedron Letters</i> , 15 : 869-875, 1964. | | | | | |
| & × | Mirrington, et al., "The Constitution of Radic | Mirrington, et al., "The Constitution of Radicicol", Tetrahedron Letters, 7: 365-370, 1964. | | | | |
| BC | Münster, et al., "Inhibition of Heat Shock Protein 90 Function by Ansamycins Causes the Morphological and Functional Differentiation of Breast Cancer Cells" <i>Cancer Research</i> , 61 : 2945-2952, 2001. | | | | | |
| | | | | | | |



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10cN/Ed 1600/2900

| Form P (0.1449) (REV. 8-83) | U.S. Department of Commerce Patent and Trademark Office | Atty. Docket: 2003080-0083 | In re Application No. 09/938,754 | | |
|----------------------------------|--|---------------------------------|----------------------------------|--|--|
| , | | (SK-943-US) | | | |
| INFORMATION DISCLOSURE STATEMENT | | Applicant: Danishefsky, et al. | | | |
| (Use seve | (Use several sheets if necessary) | | | | |
| | | Filing Date: August 24, 2001 | Group: 1651 1624 | | |
| BC | Münster, et al., "Modulation of Hsp90 Function by Ansamycins Sensitizes Breast Cancer Cells to Chemotherapy-Induced Apoptosis in an RB-and Schedule-Dependent Manner", <i>Clinical Cancer Research</i> , 7: 2228-2236, 2001. | | | | |
| BC | Murphy, et al., "Lithium Keten Thioacetalides. Factors Influencing α - Versus γ-Alkyl-ation", J. Chem. Soc. Perkin I, 2678-2682, 1980. | | | | |
| BC | Roe, et al., "Structural Basis for Inhibition of the Hsp90 Molecular Chaperone by the Antitumor Antibiotics Radicicol and Geldanamycin", <i>J. Med. Chem.</i> 42 : 260-266, 1999. | | | | |
| BC | Sausville, Edward., "Combining Cytotoxics and 17-Allylamino, 17-Demethoxygeldanamycin: Sequence and Tumor Biology Matters" <i>Clinical Cancer Research</i> , 7: 2155-2158, 2001. | | | | |
| BC BC | Schlede, et al., "Efficient Enantioselective Synthesis of a ß-Hydroxyepoxide Building Block for the Construction of Macrocyclic Natural Products", <i>Tetrahedron Letters</i> , 39 : 1143-1144, 1998. | | | | |
| BC | Scholl, et al., "Synthesis and Activity of a New Generation of Ruthenium-Based Olefin Metathesis Catalysts Coordinated with 1,3-Dimesityl-4,5-Dihydroimidazol-2-Ylidene Ligands", Organic Letters, 1(6): 953-956, 1999. | | | | |
| BC | Smith, et al., "Synthesis of (-) - Bertyadionol", J. Am Chem. Soc. 108: 3110-3112, 1986. | | | | |
| BC | Solit, "394 17-(Allylamino)-17-Demethoxygeldanamycin (17-AAG) Inhibits Intra-Cellular Akt Kinase Activity in HER2 Overexpressing Breast Cancer Cell Lines and Enhances the Apoptosis Induced by Cytotoxic Agents", http://www.aacr.org/newdrugs00/394.html, 2000 | | | | |
| BC | Uemura, et al., "Chlorination and Chloroiodination of Acetylenes with Copper(ll) Chloride", J. Chem. Soc. Perkin I, 676-680, 1977. | | | | |
| Be | Zhao, et al., "Suppression of RAS and MOS Transformation by Radicicol", Oncogene, 11: 161-173, 1995. | | | | |
| Be | Zheng, et al., "Identification of a Geldanamycin Dimer that Induces the Selective Degradation of HER-Family Tyrosine Kinases", <i>Cancer Research</i> , 60 : 2090-2094, 2000. | | | | |

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Brenda Coleman

April 15, 2003